

WHAT IS CLAIMED IS:

1. An inhibitor for an interaction between a protein that interacts with a c-Jun protein and the c-Jun protein, which comprises a protein of the following (a) or (b) as an active ingredient:

(a) a protein comprising any one of the amino acid sequences of SEQ ID NOS: 1 to 69,

(b) a protein that comprises any one of the amino acid sequences of SEQ ID NOS: 1 to 69 including deletion, substitution or addition of one or several amino acid residues and interacts with the c-Jun protein.

2. The inhibitor according to claim 2, wherein the protein as the active ingredient comprises any one of the amino acid sequences of SEQ ID NOS: 1 to 69.

3. The inhibitor according to claim 2, wherein the protein is a protein translated from a nucleic acid of the following (a) or (b):

(a) a nucleic acid comprising any one of the nucleotide sequences of SEQ ID NOS: 126 to 199,

(b) a nucleic acid that hybridizes with a nucleic acid comprising any one of the nucleotide sequences of SEQ ID NOS: 126 to 199 under a stringent condition and encodes a protein that interacts with the c-Jun protein.

4. The inhibitor according to claim 3, wherein the nucleic acid comprises any one of the nucleotide sequences of SEQ ID NOS: 126 to 199.

5. A method for detecting an interaction between a bait and a prey, which comprises bringing the bait and the prey into contact and detecting a complex formed by the contact, wherein the bait is a protein of the following (a) or (b) or a protein translated from a nucleic acid of the following (a') or (b'):

(a) a protein comprising any one of the amino acid sequences of SEQ ID NOS: 1 to 69,

(b) a protein that comprises any one of the amino acid sequences of SEQ ID NOS: 1 to 69 including deletion,

substitution or addition of one or several amino acid residues and interacts with a c-Jun protein,

(a') a nucleic acid comprising any one of the nucleotide sequences of SEQ ID NOS: 126 to 199,

(b') a nucleic acid that hybridizes with a nucleic acid comprising any one of the nucleotide sequences of SEQ ID NOS: 126 to 199 under a stringent condition and encodes a protein that interacts with a c-Jun protein.

6. The method according to claim 5, wherein the protein comprises any one of the amino acid sequences of SEQ ID NOS: 1 to 69.

7. The method according to claim 5, wherein the nucleic acid comprises any one of the nucleotide sequences of SEQ ID NOS: 126 to 199.

8. A method for screening for a prey that interacts with a bait, which comprises the step of detecting an interaction between the bait and a prey by the method according to any one of claims 5 to 7 and the step of selecting a prey for which an interaction is detected.

9. An inhibitor for an interaction between a protein that interacts with a c-Jun protein and the c-Jun protein, which comprises a protein of the following (a) or (b) as an active ingredient:

(a) a protein comprising any one of the amino acid sequences of SEQ ID NOS: 70 to 87,

(b) a protein that comprises any one of the amino acid sequences of SEQ ID NOS: 70 to 87 including deletion, substitution or addition of one or several amino acid residues and interacts with the c-Jun protein.

10. The inhibitor according to claim 9, wherein the protein as the active ingredient comprises any one of the amino acid sequences of SEQ ID NOS: 70 to 87.

11. The inhibitor according to claim 9, wherein the protein is a protein translated from a nucleic acid of the following (a) or (b):

(a) a nucleic acid comprising any one of the nucleotide sequences of SEQ ID NOS: 200 to 217,

(b) a nucleic acid that hybridizes with a nucleic acid comprising any one of the nucleotide sequences of SEQ ID NOS: 200 to 217 under a stringent condition and encodes a protein that interacts with the c-Jun protein.

12. The inhibitor according to claim 11, wherein the nucleic acid comprises any one of the nucleotide sequences of SEQ ID NOS: 200 to 217.

13. A method for detecting an interaction between a bait and a prey, which comprises bringing the bait and the prey into contact and detecting a complex formed by the contact, wherein the bait is a protein of the following (a) or (b) or a protein translated from a nucleic acid of the following (a') or (b'):

(a) a protein comprising any one of the amino acid sequences of SEQ ID NOS: 70 to 87,

(b) a protein that comprises any one of the amino acid sequences of SEQ ID NOS: 70 to 87 including deletion, substitution or addition of one or several amino acid residues and interacts with a c-Jun protein,

(a') a nucleic acid comprising any one of the nucleotide sequences of SEQ ID NOS: 200 to 217,

(b') a nucleic acid that hybridizes with a nucleic acid comprising any one of the nucleotide sequences of SEQ ID NOS: 200 to 217 under a stringent condition and encodes a protein that interacts with a c-Jun protein.

14. The method according to claim 13, wherein the protein comprises any one of the amino acid sequences of SEQ ID NOS: 70 to 87.

15. The method according to claim 13, wherein the nucleic acid comprises any one of the nucleotide sequences of SEQ ID NOS: 200 to 217.

16. A method for screening for a prey that interacts with a bait, which comprises the step of detecting an interaction between the bait and a prey by the method according to any one of claims 13 to 15 and the step of selecting a prey for which an interaction is detected.

17. An inhibitor for an interaction between a protein

that interacts with a c-Jun protein and the c-Jun protein, which comprises a protein of the following (a) or (b) as an active ingredient:

- (a) a protein comprising any one of the amino acid sequences of SEQ ID NOS: 88 to 94,
- (b) a protein that comprises any one of the amino acid sequences of SEQ ID NOS: 88 to 94 including deletion, substitution or addition of one or several amino acid residues and interacts with the c-Jun protein.

18. The inhibitor according to claim 17, wherein the protein as the active ingredient comprises any one of the amino acid sequences of SEQ ID NOS: 88 to 94.

19. The inhibitor according to claim 17, wherein the protein is a protein translated from a nucleic acid of the following (a) or (b):

- (a) a nucleic acid comprising any one of the nucleotide sequences of SEQ ID NOS: 218 to 224,
- (b) a nucleic acid that hybridizes with a nucleic acid comprising any one of the nucleotide sequences of SEQ ID NOS: 218 to 224 under a stringent condition and encodes a protein that interacts with the c-Jun protein.

20. The inhibitor according to claim 19, wherein the nucleic acid comprises any one of the nucleotide sequences of SEQ ID NOS: 218 to 224.

21. A method for detecting an interaction between a bait and a prey, which comprises bringing the bait and the prey into contact and detecting a complex formed by the contact, wherein the bait is a protein of the following (a) or (b) or a protein translated from a nucleic acid of the following (a') or (b'):

- (a) a protein comprising any one of the amino acid sequences of SEQ ID NOS: 88 to 94,
- (b) a protein that comprises any one of the amino acid sequences of SEQ ID NOS: 88 to 94 including deletion, substitution or addition of one or several amino acid residues and interacts with a c-Jun protein,
- (a') a nucleic acid comprising any one of the nucleotide

sequences of SEQ ID NOS: 218 to 224,
(b') a nucleic acid that hybridizes with a nucleic acid comprising any one of the nucleotide sequences of SEQ ID NOS: 218 to 224 under a stringent condition and encodes a protein that interacts with a c-Jun protein.

22. The method according to claim 21, wherein the protein comprises any one of the amino acid sequences of SEQ ID NOS: 88 to 94.

23. The method according to claim 21, wherein the nucleic acid comprises any one of the nucleotide sequences of SEQ ID NOS: 218 to 224.

24. A method for screening for a prey that interacts with a bait, which comprises the step of detecting an interaction between the bait and a prey by the method according to any one of claims 21 to 23 and the step of selecting a prey for which an interaction is detected.

25. An inhibitor for an interaction between a protein that interacts with a c-Jun protein and the c-Jun protein, which comprises a protein of the following (a) or (b) as an active ingredient:

(a) a protein comprising any one of the amino acid sequences of SEQ ID NOS: 95 to 99,

(b) a protein that comprises any one of the amino acid sequences of SEQ ID NOS: 95 to 99 including deletion, substitution or addition of one or several amino acid residues and interacts with the c-Jun protein.

26. The inhibitor according to claim 25, wherein the protein as the active ingredient comprises any one of the amino acid sequences of SEQ ID NOS: 95 to 99.

27. The inhibitor according to claim 25, wherein the protein is a protein translated from a nucleic acid of the following (a) or (b):

(a) a nucleic acid comprising any one of the nucleotide sequences of SEQ ID NOS: 225 to 229,

(b) a nucleic acid that hybridizes with a nucleic acid comprising any one of the nucleotide sequences of SEQ ID NOS: 225 to 229 under a stringent condition and encodes a

protein that interacts with the c-Jun protein.

28. The inhibitor according to claim 27, wherein the nucleic acid comprises any one of the nucleotide sequences of SEQ ID NOS: 225 to 229.

29. A method for detecting an interaction between a bait and a prey, which comprises bringing the bait and the prey into contact and detecting a complex formed by the contact, wherein the bait is a protein of the following (a) or (b) or a protein translated from a nucleic acid of the following (a') or (b'):

(a) a protein comprising any one of the amino acid sequences of SEQ ID NOS: 95 to 99,

(b) a protein that comprises any one of the amino acid sequences of SEQ ID NOS: 95 to 99 including deletion, substitution or addition of one or several amino acid residues and interacts with a c-Jun protein,

(a') a nucleic acid comprising any one of the nucleotide sequences of SEQ ID NOS: 225 to 229,

(b') a nucleic acid that hybridizes with a nucleic acid comprising any one of the nucleotide sequences of SEQ ID NOS: 225 to 229 under a stringent condition and encodes a protein that interacts with a c-Jun protein.

30. The method according to claim 29, wherein the protein comprises any one of the amino acid sequences of SEQ ID NOS: 95 to 99.

31. The method according to claim 29, wherein the nucleic acid comprises any one of the nucleotide sequences of SEQ ID NOS: 225 to 229.

32. A method for screening for a prey that interacts with a bait, which comprises the step of detecting an interaction between the bait and a prey by the method according to any one of claims 29 to 31 and the step of selecting a prey for which an interaction is detected.

33. An inhibitor for an interaction between a protein that interacts with a c-Jun protein and the c-Jun protein, which comprises a protein of the following (a) or (b) as an active ingredient:

- (a) a protein comprising any one of the amino acid sequences of SEQ ID NOS: 100 to 104,
- (b) a protein that comprises any one of the amino acid sequences of SEQ ID NOS: 100 to 104 including deletion, substitution or addition of one or several amino acid residues and interacts with the c-Jun protein.

34. The inhibitor according to claim 33, wherein the protein as the active ingredient comprises any one of the amino acid sequences of SEQ ID NOS: 100 to 104.

35. The inhibitor according to claim 33, wherein the protein is a protein translated from a nucleic acid of the following (a) or (b):

- (a) a nucleic acid comprising any one of the nucleotide sequences of SEQ ID NOS: 230 to 234,
- (b) a nucleic acid that hybridizes with a nucleic acid comprising any one of the nucleotide sequences of SEQ ID NOS: 230 to 234 under a stringent condition and encodes a protein that interacts with the c-Jun protein.

36. The inhibitor according to claim 35, wherein the nucleic acid comprises any one of the nucleotide sequences of SEQ ID NOS: 230 to 234.

37. A method for detecting an interaction between a bait and a prey, which comprises bringing the bait and the prey into contact and detecting a complex formed by the contact, wherein the bait is a protein of the following (a) or (b) or a protein translated from a nucleic acid of the following (a') or (b'):

- (a) a protein comprising any one of the amino acid sequences of SEQ ID NOS: 100 to 104,
- (b) a protein that comprises any one of the amino acid sequences of SEQ ID NOS: 100 to 104 including deletion, substitution or addition of one or several amino acid residues and interacts with a c-Jun protein,
- (a') a nucleic acid comprising any one of the nucleotide sequences of SEQ ID NOS: 230 to 234,
- (b') a nucleic acid that hybridizes with a nucleic acid comprising any one of the nucleotide sequences of SEQ ID

NOS: 230 to 234 under a stringent condition and encodes a protein that interacts with a c-Jun protein.

38. The method according to claim 37, wherein the protein comprises any one of the amino acid sequences of SEQ ID NOS: 100 to 104.

39. The method according to claim 37, wherein the nucleic acid comprises any one of the nucleotide sequences of SEQ ID NOS: 230 to 234.

40. A method for screening for a prey that interacts with a bait, which comprises the step of detecting an interaction between the bait and a prey by the method according to any one of claims 37 to 39 and the step of selecting a prey for which an interaction is detected.

41. An inhibitor for an interaction between a protein that interacts with a c-Jun protein and the c-Jun protein, which comprises a protein of the following (a) or (b) as an active ingredient:

(a) a protein comprising any one of the amino acid sequences of SEQ ID NOS: 105 to 108,

(b) a protein that comprises any one of the amino acid sequences of SEQ ID NOS: 105 to 108 including deletion, substitution or addition of one or several amino acid residues and interacts with the c-Jun protein.

42. The inhibitor according to claim 41, wherein the protein as the active ingredient comprises any one of the amino acid sequences of SEQ ID NOS: 105 to 108.

43. The inhibitor according to claim 41, wherein the protein is a protein translated from a nucleic acid of the following (a) or (b):

(a) a nucleic acid comprising any one of the nucleotide sequences of SEQ ID NOS: 235 to 238,

(b) a nucleic acid that hybridizes with a nucleic acid comprising any one of the nucleotide sequences of SEQ ID NOS: 235 to 238 under a stringent condition and encodes a protein that interacts with the c-Jun protein.

44. The inhibitor according to claim 43, wherein the nucleic acid comprises any one of the nucleotide sequences

of SEQ ID NOS: 235 to 238.

45. A method for detecting an interaction between a bait and a prey, which comprises bringing the bait and the prey into contact and detecting a complex formed by the contact, wherein the bait is a protein of the following (a) or (b) or a protein translated from a nucleic acid of the following (a') or (b'):

(a) a protein comprising any one of the amino acid sequences of SEQ ID NOS: 105 to 108,

(b) a protein that comprises any one of the amino acid sequences of SEQ ID NOS: 105 to 108 including deletion, substitution or addition of one or several amino acid residues and interacts with a c-Jun protein,

(a') a nucleic acid comprising any one of the nucleotide sequences of SEQ ID NOS: 235 to 238,

(b') a nucleic acid that hybridizes with a nucleic acid comprising any one of the nucleotide sequences of SEQ ID NOS: 235 to 238 under a stringent condition and encodes a protein that interacts with a c-Jun protein.

46. The method according to claim 45, wherein the protein comprises any one of the amino acid sequences of SEQ ID NOS: 105 to 108.

47. The method according to claim 45, wherein the nucleic acid comprises any one of the nucleotide sequences of SEQ ID NOS: 235 to 238.

48. A method for screening for a prey that interacts with a bait, which comprises the step of detecting an interaction between the bait and a prey by the method according to any one of claims 45 to 47 and the step of selecting a prey for which an interaction is detected.

49. An inhibitor for an interaction between a protein that interacts with a c-Jun protein and the c-Jun protein, which comprises a protein of the following (a) or (b) as an active ingredient:

(a) a protein comprising any one of the amino acid sequences of SEQ ID NOS: 109 to 111,

(b) a protein that comprises any one of the amino acid

sequences of SEQ ID NOS: 109 to 111 including deletion, substitution or addition of one or several amino acid residues and interacts with the c-Jun protein.

50. The inhibitor according to claim 49, wherein the protein as the active ingredient comprises any one of the amino acid sequences of SEQ ID NOS: 109 to 111.

51. The inhibitor according to claim 49, wherein the protein is a protein translated from a nucleic acid of the following (a) or (b):

(a) a nucleic acid comprising any one of the nucleotide sequences of SEQ ID NOS: 239 to 241,

(b) a nucleic acid that hybridizes with a nucleic acid comprising any one of the nucleotide sequences of SEQ ID NOS: 239 to 241 under a stringent condition and encodes a protein that interacts with the c-Jun protein.

52. The inhibitor according to claim 51, wherein the nucleic acid comprises any one of the nucleotide sequences of SEQ ID NOS: 239 to 241.

53. A method for detecting an interaction between a bait and a prey, which comprises bringing the bait and the prey into contact and detecting a complex formed by the contact, wherein the bait is a protein of the following (a) or (b) or a protein translated from a nucleic acid of the following (a') or (b'):

(a) a protein comprising any one of the amino acid sequences of SEQ ID NOS: 109 to 111,

(b) a protein that comprises any one of the amino acid sequences of SEQ ID NOS: 109 to 111 including deletion, substitution or addition of one or several amino acid residues and interacts with a c-Jun protein,

(a') a nucleic acid comprising any one of the nucleotide sequences of SEQ ID NOS: 239 to 241,

(b') a nucleic acid that hybridizes with a nucleic acid comprising any one of the nucleotide sequences of SEQ ID NOS: 239 to 241 under a stringent condition and encodes a protein that interacts with a c-Jun protein.

54. The method according to claim 53, wherein the

protein comprises any one of the amino acid sequences of SEQ ID NOS: 109 to 111.

55. The method according to claim 53, wherein the nucleic acid comprises any one of the nucleotide sequences of SEQ ID NOS: 239 to 241.

56. A method for screening for a prey that interacts with a bait, which comprises the step of detecting an interaction between the bait and a prey by the method according to any one of claims 53 to 55 and the step of selecting a prey for which an interaction is detected.

57. An inhibitor for an interaction between a protein that interacts with a c-Jun protein and the c-Jun protein, which comprises a protein of the following (a) or (b) as an active ingredient:

(a) a protein comprising the amino acid sequence of SEQ ID NO: 112 or 113,

(b) a protein that comprises the amino acid sequence of SEQ ID NO: 112 or 113 including deletion, substitution or addition of one or several amino acid residues and interacts with the c-Jun protein.

58. The inhibitor according to claim 57, wherein the protein as the active ingredient comprises the amino acid sequence of SEQ ID NO: 112 or 113.

59. The inhibitor according to claim 57, wherein the protein is a protein translated from a nucleic acid of the following (a) or (b):

(a) a nucleic acid comprising the nucleotide sequence of SEQ ID NO: 242 or 243,

(b) a nucleic acid that hybridizes with a nucleic acid comprising the nucleotide sequence of SEQ ID NO: 242 or 243 under a stringent condition and encodes a protein that interacts with the c-Jun protein.

60. The inhibitor according to claim 59, wherein the nucleic acid comprises the nucleotide sequence of SEQ ID NO: 242 or 243.

61. A method for detecting an interaction between a bait and a prey, which comprises bringing the bait and the

prey into contact and detecting a complex formed by the contact, wherein the bait is a protein of the following (a) or (b) or a protein translated from a nucleic acid of the following (a') or (b'):

(a) a protein comprising the amino acid sequence of SEQ ID NO: 112 or 113,

(b) a protein that comprises the amino acid sequence of SEQ ID NO: 112 or 113 including deletion, substitution or addition of one or several amino acid residues and interacts with a c-Jun protein,

(a') a nucleic acid comprising the nucleotide sequence of SEQ ID NO: 242 or 243,

(b') a nucleic acid that hybridizes with a nucleic acid comprising the nucleotide sequence of SEQ ID NO: 242 or 243 under a stringent condition and encodes a protein that interacts with a c-Jun protein.

62. The method according to claim 61, wherein the protein comprises the amino acid sequence of SEQ ID NO: 112 or 113.

63. The method according to claim 61, wherein the nucleic acid comprises the nucleotide sequence of SEQ ID NO: 242 or 243.

64. A method for screening for a prey that interacts with a bait, which comprises the step of detecting an interaction between the bait and a prey by the method according to any one of claims 61 to 63 and the step of selecting a prey for which an interaction is detected.

65. An inhibitor for an interaction between a protein that interacts with a c-Jun protein and the c-Jun protein, which comprises a protein of the following (a) or (b) as an active ingredient:

(a) a protein comprising the amino acid sequence of SEQ ID NO: 114 or 115,

(b) a protein that comprises the amino acid sequence of SEQ ID NO: 114 or 115 including deletion, substitution or addition of one or several amino acid residues and interacts with the c-Jun protein.

66. The inhibitor according to claim 65, wherein the protein as the active ingredient comprises the amino acid sequence of SEQ ID NO: 115.

67. The inhibitor according to claim 65, wherein the protein is a protein translated from a nucleic acid of the following (a) or (b):

(a) a nucleic acid comprising the nucleotide sequence of SEQ ID NO: 244 or 245,

(b) a nucleic acid that hybridizes with a nucleic acid comprising the nucleotide sequence of SEQ ID NO: 244 or 245 under a stringent condition and encodes a protein that interacts with the c-Jun protein.

68. The inhibitor according to claim 67, wherein the nucleic acid comprises the nucleotide sequence of SEQ ID NO: 244 or 245.

69. A method for detecting an interaction between a bait and a prey, which comprises bringing the bait and the prey into contact and detecting a complex formed by the contact, wherein the bait is a protein of the following (a) or (b) or a protein translated from a nucleic acid of the following (a') or (b'):

(a) a protein comprising the amino acid sequence of SEQ ID NO: 114 or 115,

(b) a protein that comprises the amino acid sequence of SEQ ID NO: 114 or 115 including deletion, substitution or addition of one or several amino acid residues and interacts with a c-Jun protein,

(a') a nucleic acid comprising the nucleotide sequence of SEQ ID NO: 244 or 245,

(b') a nucleic acid that hybridizes with a nucleic acid comprising the nucleotide sequence of SEQ ID NO: 244 or 245 under a stringent condition and encodes a protein that interacts with a c-Jun protein.

70. The method according to claim 69, wherein the protein comprises the amino acid sequence of SEQ ID NO: 114 or 115.

71. The method according to claim 69, wherein the

nucleic acid comprises the nucleotide sequence of SEQ ID NO: 244 or 245.

72. A method for screening for a prey that interacts with a bait, which comprises the step of detecting an interaction between the bait and a prey by the method according to any one of claims 69 to 71 and the step of selecting a prey for which an interaction is detected.

73. An inhibitor for an interaction between a protein that interacts with a c-Jun protein and the c-Jun protein, which comprises a protein of the following (a) or (b) as an active ingredient:

(a) a protein comprising the amino acid sequence of SEQ ID NO: 116 or 117,

(b) a protein that comprises the amino acid sequence of SEQ ID NO: 116 or 117 including deletion, substitution or addition of one or several amino acid residues and interacts with the c-Jun protein.

74. The inhibitor according to claim 73, wherein the protein as the active ingredient comprises the amino acid sequence of SEQ ID NO: 116 or 117.

75. The inhibitor according to claim 73, wherein the protein is a protein translated from a nucleic acid of the following (a) or (b):

(a) a nucleic acid comprising the nucleotide sequence of SEQ ID NO: 246 or 247,

(b) a nucleic acid that hybridizes with a nucleic acid comprising the nucleotide sequence of SEQ ID NO: 246 or 247 under a stringent condition and encodes a protein that interacts with the c-Jun protein.

76. The inhibitor according to claim 75, wherein the nucleic acid comprises the nucleotide sequence of SEQ ID NO: 246 or 247.

77. A method for detecting an interaction between a bait and a prey, which comprises bringing the bait and the prey into contact and detecting a complex formed by the contact, wherein the bait is a protein of the following (a) or (b) or a protein translated from a nucleic acid of the

following (a') or (b')):

(a) a protein comprising the amino acid sequence of SEQ ID NO: 116 or 117,

(b) a protein that comprises the amino acid sequence of SEQ ID NO: 116 or 117 including deletion, substitution or addition of one or several amino acid residues and interacts with a c-Jun protein,

(a') a nucleic acid comprising the nucleotide sequence of SEQ ID NO: 246 or 247,

(b') a nucleic acid that hybridizes with a nucleic acid comprising the nucleotide sequence of SEQ ID NO: 246 or 247 under a stringent condition and encodes a protein that interacts with a c-Jun protein.

78. The method according to claim 77, wherein the protein comprises the amino acid sequence of SEQ ID NO: 116 or 117.

79. The method according to claim 77, wherein the nucleic acid comprises the nucleotide sequence of SEQ ID NO: 246 or 247.

80. A method for screening for a prey that interacts with a bait, which comprises the step of detecting an interaction between the bait and a prey by the method according to any one of claims 77 to 79 and the step of selecting a prey for which an interaction is detected.

81. An inhibitor for an interaction between a protein that interacts with a c-Jun protein and the c-Jun protein, which comprises a protein of the following (a) or (b) as an active ingredient:

(a) a protein comprising the amino acid sequence of SEQ ID NO: 118 or 119,

(b) a protein that comprises the amino acid sequence of SEQ ID NO: 118 or 119 including deletion, substitution or addition of one or several amino acid residues and interacts with the c-Jun protein.

82. The inhibitor according to claim 81, wherein the protein as the active ingredient comprises the amino acid sequence of SEQ ID NO: 118 or 119.

83. The inhibitor according to claim 81, wherein the protein is a protein translated from a nucleic acid of the following (a) or (b):

(a) a nucleic acid comprising the nucleotide sequence of SEQ ID NO: 248 or 249,

(b) a nucleic acid that hybridizes with a nucleic acid comprising the nucleotide sequence of SEQ ID NO: 248 or 249 under a stringent condition and encodes a protein that interacts with the c-Jun protein.

84. The inhibitor according to claim 83, wherein the nucleic acid comprises the nucleotide sequence of SEQ ID NO: 248 or 249.

85. A method for detecting an interaction between a bait and a prey, which comprises bringing the bait and the prey into contact and detecting a complex formed by the contact, wherein the bait is a protein of the following (a) or (b) or a protein translated from a nucleic acid of the following (a') or (b'):

(a) a protein comprising the amino acid sequence of SEQ ID NO: 118 or 119,

(b) a protein that comprises the amino acid sequence of SEQ ID NO: 118 or 119 including deletion, substitution or addition of one or several amino acid residues and interacts with a c-Jun protein,

(a') a nucleic acid comprising the nucleotide sequence of SEQ ID NO: 248 or 249,

(b') a nucleic acid that hybridizes with a nucleic acid comprising the nucleotide sequence of SEQ ID NO: 248 or 249 under a stringent condition and encodes a protein that interacts with a c-Jun protein.

86. The method according to claim 85, wherein the protein comprises the amino acid sequence of SEQ ID NO: 118 or 119.

87. The method according to claim 61, wherein the nucleic acid comprises the nucleotide sequence of SEQ ID NO: 248 or 249.

88. A method for screening for a prey that interacts

with a bait, which comprises the step of detecting an interaction between the bait and a prey by the method according to any one of claims 85 to 88 and the step of selecting a prey for which an interaction is detected.

89. An inhibitor for an interaction between a protein that interacts with a c-Jun protein and the c-Jun protein, which comprises a protein of the following (a) or (b) as an active ingredient:

(a) a protein comprising the amino acid sequence of SEQ ID NO: 120 or 121,

(b) a protein that comprises the amino acid sequence of SEQ ID NO: 120 or 121 including deletion, substitution or addition of one or several amino acid residues and interacts with the c-Jun protein.

90. The inhibitor according to claim 89, wherein the protein as the active ingredient comprises the amino acid sequence of SEQ ID NO: 120 or 121.

91. The inhibitor according to claim 89, wherein the protein is a protein translated from a nucleic acid of the following (a) or (b):

(a) a nucleic acid comprising the nucleotide sequence of SEQ ID NO: 250 or 251,

(b) a nucleic acid that hybridizes with a nucleic acid comprising the nucleotide sequence of SEQ ID NO: 250 or 251 under a stringent condition and encodes a protein that interacts with the c-Jun protein.

92. The inhibitor according to claim 91, wherein the nucleic acid comprises the nucleotide sequence of SEQ ID NO: 250 or 251.

93. A method for detecting an interaction between a bait and a prey, which comprises bringing the bait and the prey into contact and detecting a complex formed by the contact, wherein the bait is a protein of the following (a) or (b) or a protein translated from a nucleic acid of the following (a') or (b'):

(a) a protein comprising the amino acid sequence of SEQ ID NO: 120 or 121,

(b) a protein that comprises the amino acid sequence of SEQ ID NO: 120 or 121 including deletion, substitution or addition of one or several amino acid residues and interacts with a c-Jun protein,

(a') a nucleic acid comprising the nucleotide sequence of SEQ ID NO: 250 or 251,

(b') a nucleic acid that hybridizes with a nucleic acid comprising the nucleotide sequence of SEQ ID NO: 250 or 251 under a stringent condition and encodes a protein that interacts with a c-Jun protein.

94. The method according to claim 93, wherein the protein comprises the amino acid sequence of SEQ ID NO: 120 or 121.

95. The method according to claim 93, wherein the nucleic acid comprises the nucleotide sequence of SEQ ID NO: 250 or 251.

96. A method for screening for a prey that interacts with a bait, which comprises the step of detecting an interaction between the bait and a prey by the method according to any one of claims 93 to 95 and the step of selecting a prey for which an interaction is detected.

97. An inhibitor for an interaction between a protein that interacts with a c-Jun protein and the c-Jun protein, which comprises a protein of the following (a) or (b) as an active ingredient:

(a) a protein comprising the amino acid sequence of SEQ ID NO: 122 or 123,

(b) a protein that comprises the amino acid sequence of SEQ ID NO: 122 or 123 including deletion, substitution or addition of one or several amino acid residues and interacts with the c-Jun protein.

98. The inhibitor according to claim 97, wherein the protein as the active ingredient comprises the amino acid sequence of SEQ ID NO: 122 or 123.

99. The inhibitor according to claim 97, wherein the protein is a protein translated from a nucleic acid of the following (a) or (b):

- (a) a nucleic acid comprising the nucleotide sequence of SEQ ID NO: 122 or 123,
- (b) a nucleic acid that hybridizes with a nucleic acid comprising the nucleotide sequence of SEQ ID NO: 252 or 253 under a stringent condition and encodes a protein that interacts with the c-Jun protein.

100. The inhibitor according to claim 99, wherein the nucleic acid comprises the nucleotide sequence of SEQ ID NO: 252 or 253.

101. A method for detecting an interaction between a bait and a prey, which comprises bringing the bait and the prey into contact and detecting a complex formed by the contact, wherein the bait is a protein of the following (a) or (b) or a protein translated from a nucleic acid of the following (a') or (b'):

- (a) a protein comprising the amino acid sequence of SEQ ID NO: 122 or 123,
- (b) a protein that comprises the amino acid sequence of SEQ ID NO: 122 or 123 including deletion, substitution or addition of one or several amino acid residues and interacts with a c-Jun protein,
- (a') a nucleic acid comprising the nucleotide sequence of SEQ ID NO: 252 or 253,
- (b') a nucleic acid that hybridizes with a nucleic acid comprising the nucleotide sequence of SEQ ID NO: 252 or 253 under a stringent condition and encodes a protein that interacts with a c-Jun protein.

102. The method according to claim 101, wherein the protein comprises the amino acid sequence of SEQ ID NO: 122 or 123.

103. The method according to claim 101, wherein the nucleic acid comprises the nucleotide sequence of SEQ ID NO: 252 or 253.

104. A method for screening for a prey that interacts with a bait, which comprises the step of detecting an interaction between the bait and a prey by the method according to any one of claims 101 to 103 and the step of

selecting a prey for which an interaction is detected.

105. An inhibitor for an interaction between a protein that interacts with a c-Jun protein and the c-Jun protein, which comprises a protein of the following (a) or (b) as an active ingredient:

(a) a protein comprising the amino acid sequence of SEQ ID NO: 124 or 125,

(b) a protein that comprises the amino acid sequence of SEQ ID NO: 124 or 125 including deletion, substitution or addition of one or several amino acid residues and interacts with the c-Jun protein.

106. The inhibitor according to claim 105, wherein the protein as the active ingredient comprises the amino acid sequence of SEQ ID NO: 124 or 125.

107. The inhibitor according to claim 105, wherein the protein is a protein translated from a nucleic acid of the following (a) or (b):

(a) a nucleic acid comprising the nucleotide sequence of SEQ ID NO: 254 or 255,

(b) a nucleic acid that hybridizes with a nucleic acid comprising the nucleotide sequence of SEQ ID NO: 254 or 255 under a stringent condition and encodes a protein that interacts with the c-Jun protein.

108. The inhibitor according to claim 107, wherein the nucleic acid comprises the nucleotide sequence of SEQ ID NO: 254 or 255.

109. A method for detecting an interaction between a bait and a prey, which comprises bringing the bait and the prey into contact and detecting a complex formed by the contact, wherein the bait is a protein of the following (a) or (b) or a protein translated from a nucleic acid of the following (a') or (b'):

(a) a protein comprising the amino acid sequence of SEQ ID NO: 124 or 125,

(b) a protein that comprises the amino acid sequence of SEQ ID NO: 124 or 125 including deletion, substitution or addition of one or several amino acid residues and

interacts with a c-Jun protein,

(a') a nucleic acid comprising the nucleotide sequence of SEQ ID NO: 254 or 255,

(b') a nucleic acid that hybridizes with a nucleic acid comprising the nucleotide sequence of SEQ ID NO: 254 or 255 under a stringent condition and encodes a protein that interacts with a c-Jun protein.

110. The method according to claim 109, wherein the protein comprises the amino acid sequence of SEQ ID NO: 124 or 125.

111. The method according to claim 109, wherein the nucleic acid comprises the nucleotide sequence of SEQ ID NO: 254 or 255.

112. A method for screening for a prey that interacts with a bait, which comprises the step of detecting an interaction between the bait and a prey by the method according to any one of claims 109 to 111 and the step of selecting a prey for which an interaction is detected.